

Clmpto

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Claims-1-23 has been cancel

24. (Currently Amended) A fiber optic module
comprising:

a nose receptacle including

a fiber optic cable receptacle to receive one
or more fiber optic cable plugs,

a lever-actuator to release the fiber optic
module from a cage assembly using a rotational
action;

a second actuator coupled to the lever-
actuator, the second actuator to release a keeper
from a latch to release the fiber optic module in
response to a rotational action on the lever-
actuator;

and

a printed circuit board including one or more

electro-optic transducers to convert optical signals into
electrical signals or electrical signals into optical signals.

25. The fiber optic module of claim 24 wherein, the fiber optic module is a small form pluggable (SFP) fiber optic module and the cage assembly is a small form pluggable (SFP) cage assembly.

26. The fiber optic module of claim 24 further comprising:

a housing to couple to the nose receptacle and cover the printed circuit board.

27. The fiber optic module of claim 26 wherein, the housing is shielded to protect the printed circuit board from electromagnetic interference.

28. The fiber optic module of claim 24 wherein, the lever-actuator includes one or more pins to rotationally engage the nose receptacle.

29. The fiber optic module of claim 24 wherein, the lever-actuator includes one or more holes to rotationally engage the nose receptacle.

30. The fiber optic module of claim 24 wherein, the second-actuator slides to release the fiber optic module from the cage assembly.

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31. The fiber optic module of claim 24 wherein, the second-actuator includes grooves to slideably couple the second-actuator to the nose receptacle.

32. The fiber optic module of claim 24 wherein, the second-actuator includes rails to slideably coupled the second-actuator to the nose receptacle.

33. The fiber optic module of claim 24 wherein, the lever-actuator includes an orientation indicator to indicate the fiber optic module which the lever-actuator releases.

34. The fiber optic module of claim 24 wherein, the lever-actuator includes

35. (Currently Amended) The fiber optic module of claim 34 wherein, the pull-arm is a semi-circular ring.

36. (Currently Amended) The fiber optic module of claim 34 wherein, the pull-arm is a rectangular ring.

37. (Currently Amended) The fiber optic module of claim

34 wherein,
the pull-arm is a tab.

claims- 38-54 has been cancel

55. A fiber optic module comprising:
means for converting optical signals into electrical

signals or electrical signals into optical signals; and
means for disengaging the fiber optic module from a cage
assembly by rotating a lever-actuator.

56. The fiber optic module of claim 55 further
comprising:
means for withdrawing the fiber optic module by pulling
on the lever-actuator.

57. The fiber optic module of claim 56 wherein the means
for disengaging also provides a means for withdrawing.

58. The fiber optic module of claim 55 further comprising:

means for pivotally disengaging the fiber optic module from a cage assembly when the lever-actuator is rotated.

59. The fiber optic module of claim 55 further comprising:

means for coupling the disengaging means to the fiber optic module.

60. The fiber optic module of claim 55 further comprising:

means for indicating the fiber optic module which the disengaging means releases.

61. A method for disengaging and withdrawing a fiber optic module from a cage assembly comprising:

rotating a lever-actuator to disengage the fiber optic module from the cage assembly; and

pulling on the lever-actuator to withdraw the fiber optic module from the cage assembly.

62. The method of claim 61 further comprising:

releasing the lever-actuator if the fiber optic module has been released from the cage assembly.

claims-63-93 has been cancel